CLAIMS:

Multiphase LC oscillator comprising N units whereby N is at least 2, and each 1. unit performs a phase shift of 180°/N of an incoming signal, whereby each unit comprises a VI converter part with a phase shift 180°/N and an LC oscillation part, and the multiphase LC oscillator supplies at least two outputs signal with a phase difference.

Multiphase LC oscillator as claimed in claim 1, characterized in that each unit 2. comprises control means to adjust the phase shift to obtain the required phase shift of 180%.

Multiphase LC oscillator as claimed in claim 2, characterized in that a VI converter of the unit comprises amplifiers in series with a compensation amplifier parallel.

V/I converter for use in a multiphase LC oscillator according to claim 1, characterized in that V/I converter comprises compensation means to compensate for a phase shift.

Method to obtain multiphase signals with phase differences 180 degrees/N 15 whereby N is at least 2, having the steps of receiving an incoming signal, performing a phase shift of 180 degrees/N and supplying signals with a phase difference.

5

10